EVENING STAR,

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EVIn order to avoid delays on account personal absence, letters to THE STAR about to the addressed to any individual connect with the office, but simply to THE STAR, or the Editorial or Business Department, accordi-Mr. Bryan and Bolting.

Let us all keep certain things clear in our minds. It is as a democrat that Mr. Bryan challenges the President on the issue of preparedness. When he left the State Department he did not leave the democratic party. He resigned office in order to be free to express himself as an individual about administration policies.

At that time the difference between himself and the President related to a note to the German government on the subject of the latter's submarine warfare. On the subject of preparedness they were in agreement. Both were pacificists. The President regarded all talk about a larger army and navy as "academic." He poohpoohed it. Mr. Bryan regarded it with even less respect than that. When he noticed it at all it was to condemr. it

outright. Since then the President has become a convert to preparedness, while Mr. Bryan holds his ground, and is so much opposed to the proposition, he raps over the knuckles the man he made President and is the commissioned leader of the democratic

Mr. Bryan, therefore, is making his fight within the democratic party; and democrats, in Congress and out, are confronted with the necessity of choosing between two democrats, the one in office with every claim to leadership, and the other out of office aspiring to lead the leader in this particular business.

But what will Mr. Bryan do if the fight goes against him? Leave the party? How could he do that in the light of his record? Democrats who in 1896, after making the fight against free silver in the democratic national convention, bolted, were denounced by him as traitors; and he forbade them to return except in sackcloth and ashes. Some returned, though not those habiliments, and some have never returned. They have never since voted a democratic ticket. And both in 1900 and 1908 Mr. Bryan men who until he became the demo-

other than a democratic ballot. ness or any other issue he must bow even in that capacity. to the decree. If he refuses the President support he becomes a bolter; he puts himself in an attitude he denounced nineteen years ago when assumed by others at his expense As he himself has interpreted party duty, he must stand to the rack, fodder, or was hardly necessary, for it was vir-

Burglars in Buffalo broke into a saloon and, finding no money, stole is in its natural color more beautiful the cash register. Evidently the boss than any extrinsic decoration can burglar had become suspicious of the make it. A gilt Statue of Liberty gang and decided to establish more would be little short of an atrocity, systematic business methods.

A number of Americans who live present crisis whether it would not have been better to pay all their taxes at the old home.

California looks forward to its offive culture as an important resource. There will be a lot of olive branches needed next year.

Democrats and Bull Moosers.

opinion that bull moosery, as an in- gers and citizens on their arrival in dependent proposition, will cut but a port. A gilt Liberty would be too small if any figure in next year's much like an advertisement. Fortucampaign. He expects "a straight nately good taste prevails sufficiently out and-out fight between democratic and republican candidates," with Mr. Wilson as the democratic candidate. This is the way he puts it:

The majority of the progressives will be found voting with the demo-cratic party in 1916. Some, of course, who voted for Col. Roosevelt because they were strongly attached to him will be back in the republican fold.

"In some states third party men will continue to vote the progressive ticket in 1916. This will make it difficult for the republicans to capture electoral votes, though, of course, not to the same extent as in 1012.

But, nevertheless, I realize that we will know next November that we have been through a real fight."

What is to take a majority of the bull moosers into the democratic camp? Not even in the republican party has there appeared as severe a critic of the administration's foreign policies as Mr. Roosevelt. As respects both Mexico and Europe he thinks Mr. Wilson's course has been mistaken to the point of a crime; that

democratic ticket next year?

tariff, and attributes business depreshe public, until it is operated under rency law, and hopes for amendments to that. Mr. Perkins, who was his life been more strongly anti-

Mr. Wilson, directly for re-election. Indirectly, of course, Mr. Roosevelt sulted them, but actually has gone contrary to their well known views.

however, in predicting that next year's winning party will realize that it has had a run for its money.

Passing of Famous Ships.

Two famous ships of the American navy-that part of the establishment which is affectionately called the old navy-have recently been sold as junk and committed to the flames for the recovery of copper and other metals used in their hulls, and which can be more cheaply secured by burning the hulk than in any other way. There is something shocking to pa triotic sentiment in this process, but efficiency and sentiment are often incompatible, and where they are so efficiency has the right of way and sentiment goes by the board.

A few weeks ago the sloop of war Portsmouth, which, under command of Capt. Montgomery, carried the Francisco, was sold for a trifling sum and her buyers then had her hauled ventional motor car accident. to mud flats near Boston and set or fire. The Portsmouth went into the harbor of San Francisco, or as the village was then called, Yerba Buena, some months ahead of Commodore John Drake Sloat with his flagship the Savannah, and two other ships the Cyane and the Levant. Patriotic efforts were made to save the famous old craft from a sordid fate, but they

were not sufficiently practical. A few days ago a dispatch from San Francisco said "a series of charred, oaken ribs projecting out of a mud flat in San Francisco bay was all that remained of the frigate Independence, the oldest ship in the United States Navy, which was burned for the copper in her hull." In the news it was said that the career of the Independence began in 1812; was opposed for the presidency by that the frigate was America's first flagship and carried seventy-four cratic leader had never cast any guns on her three decks. After her retirement from active service the Now, according to Mr. Bryan's own Independence was stationd at Mare prescription, if he loses his fight Island as a receiving ship, and three against the President on prepared- years ago went out of commission

The Statue of Liberty.

The War Department's denial of in New York harbor is to be gilded tually incredible that the government should put a perishable coat of precious metal upon a bronze figure that and it is not remarkable that persons of artistic tastes should have been excited over the report. It may abroad are possibly wondering in the be that the statue has been somewhat neglected in point of repairs and attention to the inner structure, but nothing should be done to change the gray-green coat that time has given the bronze and that has acquired a distinctive character. At present the great figure is part of the landscape. It is not garish, nor does it obtrude itself flamboyantly. Yet it cannot be lost or mistaken. It is Chairman McCombs expresses the always there to welcome both stranto prevent such a desecration.

> So strong is the human tendency to be jealous of wealth that many people are now mentioning J. P. Morgan's appendicitis in terms of envious admiration.

The development of a split in the democratic party would call attention to the disposition to copy Col. Roosevelt's policies.

Politically considered, some of W. J. Bryan's peace utterances sound like war to the knife.

Simultaneous Deaths. One of the most troublesome ques

tions that can come to a probate The men who played got fearful court is that which relates to the question of precedence of death in case a husband and wife lose their lives practically simultaneously, as in a disaster. This question frequently Though some of them went walking it has cost America heavily in pres- arises and often on it hangs the distige, and should be rebuked at the posal of property of great value. Such polls. What bull moosers still under a case is now before the surrogate's the Roosevelt influence will vote the court of New York city, where the future ownership of \$1,000,000 is in-George W. Perkins stands for the volved. The husband and wife were The foot ball really seemed to me business end of bull moosery. What passengers on the Lusitania and both The winner of the game."

bull mooser under his influence will lost their lives. They made their vote the democratic ticket next year? | wills the day before sailing on the ill-He holds that the domestic policies fated steamer, and referred to the of the administration have failed and possibility of their death, the husinjured the country. He instances the band remarking that if they died in circumstances which made it difficult sion in many lines to the Underwood to determine precedence it should be revision to the new trust legislation, deemed that he predeceased his wife. and declare sthat big business cannot But the husband's declaration may be safe and prosperous, or helpful to not govern the court in its decision, as under the terms of the will in this wishes of one of the testators is to a republican until 1912, has never in to accept testimony on this point where it is impossible to judge as to democratic than now. It is impos- the precedence of death. After all, sible to imagine him a supporter of the court should in all such cases be governed by the evident desires of the testators and not by rigid techand Mr. Perkins are responsible for nicalities. So many cases of this kind Mr. Wilson's presence in the White have occurred that much litigation, House. They divided the republican usually very costly, would be spared party, and Mr. Wilson marched to by the establishment of a fixed rule The winter work which the bureau is ictory through the divided ranks, In to the effect that in case of virtually all probability, it is the realization of simultaneous deaths that of the hustheir responsibility that makes both band or that of the wife took place men so very emphatic now in their first, according as the equities may condemnation of the existing order. most strongly govern in the deter-How sharper than a serpent's tooth, mination of the rule. Some courts they think, is a thankless administra- have held in these cases that the wife tion! Mr. Wilson owes his office to must be assumed to have died first, them, and yet has not only not con- being of a physically weaker nature, while other courts have held that the husband would naturally assume the Mr. McCombs is on safe ground, position of greater danger for the protection of the woman. Thus there race will be a hummer, and that the is reason for either rule that whichever is established it should be defi-

> probate procedure. While effectual in its censorship, the English government in discussing German atrocities does not fail to put a good man in charge of the publicity department.

nite for the sake of promptness of

Tammany is entitled to congratulate itself if at one stroke it got rid of the proposed state constitution and Elihu Root as a possible republican

Greece is inclined to limit her interest in the war to the matter of adequate compensation for the use of lective her territory as a right of way.

King George at least enjoyed the Stars and Stripes into the bay at San distinction of being thrown from a horse instead of being hurt in a con-

> The Sultan of Turkey continues to seclude himself and wait for the other people to decide what they are going to do about it.

George Harvey invented the phrase "babbling boobs" and not a soul has sued for libel.

ways avail to prevent a foreign war

A long time has elapsed since Col.

from interfering with domestic poli-

fraught with especial peril for the in- recreational activity. nocent bystander.

SHOOTING STARS.

BY PHILANDER JOHNSON.

Information. "I'm just beginning to understand

why they label this window 'Informa "Can you find out what you want

to know?"

"No. But it's a place where you can always go and inform somebody the report that the Statue of Liberty about what you happen to have on your mind."

Same Old Discrepancy.

Thanksgiving sorrows we will meet. Two kinds our hearts will touch. A few won't have enough to eat, While many have too much

When the Slip Comes. "The wicked stand in slippery places."

"That's true," replied Senator Sorghum, "and yet it looks to me as if some mighty good people get the worst of a landslide."

Curious Coincidence.

"Charley dear," said young Mrs. Torkins, " did you know they were destroying the forests to make paper !"

"I've heard something about it." "Maybe that accounts for something. When I read some of the long arguments on the tariff I feel exactly as if I were getting lost in the woods.

Resolute Confidence.

"I see they defeated woman suffrage in your state."

"Woman suffrage," replied Mrs. Votewell, "cannot be defeated. They succeeded only in postponing it."

Joyous Geraldine.

"I saw a lovely foot ball game," Said joyous Geraldine. "The foot ball seemed quite kind and tame

In a tempestuous scene, They pushed and pulled and pounded And slammed it through the air.

The foot ball didn't mind a bit. It never seemed to care. At first it was so nice and neat It seemed a perfect shame

To jump on it with dusty feet Throughout the thrilling game. knocks! Though some of them fell down

And tore their trousers and their socks. Their parents did not frown.

And others used a crutch, They still assailed that foot ball stout, But couldn't hurt it much. Although I raised my voice with glee To hail the victor's name

WHAT THE GOVERNMENT IS DOING FIFTY YEARS AGO

Hundreds of hitherto unused acres of it on a large scale, it has gone throughout a large portion of the south during the scale and is actually conducting fishing operations on a commercial scale. Arrangements well made with the owner of a fishing vess are being made by Winter Gardens school children to

in the South. of garden truck this produce winter crops season. The work is progressing under instance the fact itself and not the an extension of the children's backyard-garden plan fostered by the United States bureau of education, and, work, will officials of the bureau believe, constitute an epoch-making facnomic development of the south.

ern schools is a direct outgrowth of first originated in the northern states doing is now confined, because of small funds, to Virginia, North and South Carolina, Georgia and a portion of Tennessee, but it is hoped before long to carry on the activities in all of the

up when Congress, in 1914, authorized the establishment of the home and school gardening division in the burea and appropriated \$5.700 for beginning fact that while there was then hardly any school garden work in progress in the south, and, therefore, a negligible production from this source, the school children of Chattanooga, Tenn, alone, by May of the growing season of 1915 had sold over \$1,000 worth of vegetables besides furnishing their families with a goodly portion.

When it began its southern activities the bureau of education immediately

the bureau of education immediately put into operation the home-garden plan. All children who had back yards available were encouraged to set to work cleaning them up and putting the soil into shape. For children without back yards vacant lots were secured near their homes and similar opera-tions were begun there. In some places, where sufficient land could not be se-cured in either of these ways, relative-ly large tracts of land have been leased in the outskirts of towns and generous gardens laid off for each child. The bureau of education believes

The bureau of education believes, from the results secured, even in the short period of its activities, that the garden plan it has adopted is an effective means for giving the children a better and more constructive education. Its organization work has progressed most satisfactorily. Numerous communities have followed its suggestions and have, in turn, become enthusiastic over the possibilities. School superintendents, boards of education, women's clubs, business men's associations and other organizations have taken up the work of extending the movement and are giving it financial assistance in scores of communities. The work has been developed principally for children between ten and ffteen years of age, and this age, it is pointed out by Dr. P. P. Claxton, United States commissioner of education, is that at which the few pennies that may be contributed by the average parents cease to satisfy, and the children are glad of an opportunity to actually earn substantial amounts of money. Dr. Clayton and the education. from the results secured, even in th tually earn substantial amounts of money. Dr. Claxton and the educa-tional experts directly in charge of the work call attention to the fact that the work call attention to the fact that the work also inculcates thrift and furnishes business experience, witalizes the ordinary school work, puts many from interfering with domestic policitics.

A Mexican battle continues to be and aptitude for farming or gardening, and, in addition to all this, furnishes as well a wholesome, constructive, recreational activity.

> Clubs, the value of which in the or-Women's Clubs and the building oup

ice on its projects where people gathered from the four corners of the country are engaged in the new pioneer-ing-subjugating the desert with water. The reclamation service is rec-ognizing that the feminine factor is important in the building of the new

ing—subjugating the desert with water. The reclamation service is recognizing that the feminine factor is important in the building of the new formunities and is interesting itself just now through the Reclamation Record, a government periodical published in the interest of project residents, in seeking to extend the various women's organizations.

The possibility of having in farming districts strong and active women's clubs that compare favorably with those in cities is not understood by easterners, the Reclamation Record points out, for in the east farms are large and rural population is scattered. Many of the western irrigation projects, however, are practically cities of farms, the units on some projects, however, are practically cities of farms, the units on some projects, however, are practically cities of farms, the units on some projects however, are practically cities of farms, the units on some projects, however, are practically cities of farms, the units on some projects have acres. This situation brings about a concentration of population that makes all sorts of community activities easily possible, and on a number of the projects the women have made the most of their opportunities and have organized associations of such varied character as canning clubs, Shakespearean study groups, parent teacher organizations and clubs for various civic purposes. The movement has reacted so favorably on the general life on the projects that the Reclamation Record has thrown its columns open to the women for the publication of a general directory of project women's clubs and will act also as a clearing house for the exchange of averiences and helpful hirts among

as markets, consumers and even fishermen are concerned has practically never been heard of.
While the government believes in the

efficiency of advertising and makes use

From the Chicago Evening Post.

Toward the close of the war a swindle was practiced in this city upon ignorant colselectives had been looking for nearly a year, against whom were many charges of exchanging these pieces, which were known as "spiel munze," for greenbacks:

"The game is generally played upon ignorant contraband. The seller is always supplied with genuine gold pieces, and if the victim doubts the genuineness the seller calls any passer—

The political importance of explosions and explosives is daily augmenting, employed both in and explosives is daily augmenting, employed both in and explosives is daily augmenting, employed both in a catual war operations and war operations and white sin the sale of imitation gold pieces for real money. In The Star of October 121, 1865, is a paragraph telling of the arrest of John Reed, a negro, for whom detectives had been looking for nearly a year, against whom were many charges of exchanging these pieces, which were known as "spiel munze," for greenbacks:

"The game is generally played upon ignorant contraband. The seller is always supplied with genuine gold pieces, and if the victim doubts the genuineness the seller calls any passer—

The political importance of explosions and explosives is daily augmenting, employed both in the Arabs; it was made to propel arrows. There is, therefore, no merit in attributing the invention of powder to Roger Bacton, to Schwartz-Severinus or Tibseles. In the destruction of the enemies, ways and means. When the mine, the mortar, the torped and the hand grenade have become the most powerful weapons of combat it behooves us to resume some notions of the subject the importance of which is capital.

First of all, explosives possess the same order of chemical phenomena resulting from the conditions to which they are subjected. Further to dynatically the propelarious and explosions and expl

genuineness the seller calls any passerby and exhibits the good gold and asks if it is genuine. The third party, of ed slowly; suspended in the air in an the victim will give all his greenbacks the genuine out when the sale is made wholesale in this city, the \$20 for 40 the fives at 15 cents. But they say that it cannot be stopped, because they are sold simply as medals and the in-scription upon them is 'Compos Spiel Munze.'"

the workingmen of Washington held Eight-Hour Day meeting in the in-Demonstration. terest of the eseight-hour day in this city. All the

rades were represented in the parade, which marched through the streets with torches, lanterns and transparencies and assembled at the city hall, where a stand had been erected, with ilthe reduction of the working day. The Star said of this demonstration Novem-

"The parade and demonstration of the workingmen last night, in furtherance of the eight-hour movement, was certainly a very large, imposing, orderly and well conducted affair. An effective feature of the procession was the working representations of the different trades of the different trades considered out with great trades. in Washington. The interest f the wives and families of the ngmen in the demonstration and the the fact that not only the spacious steps and landings of the city hall steps and landings of the city hall were almost entirely occupied by them, but numbers were also seen standing patiently in the muddy streets for hours to witness the procession or to listen to the addresses at the stand." While dredging forces are working

> A serious problem confronting the overnment after the war was the establishment upon a self-Establishing supporting basis of the Freedmen. emancipated slaves. This work was under the su-

ervision of the Freedman's bureau. Around Washington it was attended November 2, 1865, is this paragraph "The Freedman's bureau has received from the superintendent in charge for the month of October, from which it appears that all of the freedmen and refugees in Fairfax county are self-supporting. There are no camps in the county where freedmen are congregated. There are 135 colored people at Fairfay Court House. 2015 fairfax Court House, 30 at Fairfax deportment of the colored people in the county has been very satisfactory, they appearing to appreciate the blessings of freedmen, and no cases are reported where the former owners of slaves have attempted to oppress the freedmen in any way."

occur if the explosive had been included in an envelope.

Black powder cannot do else than flare up; melinite up

The keenest anxiety prevailed in this country fifty years ago as to the possibility of the cholera, Cholera in then raging in Europe New York. appearing on these shores. In The Star of November 3, 1865, is an article which discusses this question seriously and gives suggestions for the treatment of the disease in its early stage. The Star poses progressively or explodes violent-

"The cholera is still advancing in Europe and there is very little ground Post Offices. country, and so comes for the hope that it will not enter this side of a capsule of fulminate of mercontinent."

In the same issue of The Star a dispatch from New York stated that the steamship Atlanta had arrived from London and been sent to the lower quarantine in consequence of sickness among passengers, rumors prevailing that eight deaths had occurred during the voyage from cholera. The next recipitate an explosion "by innue."
The sensitiveness of explosives is very variable. Heat at variable points always explodes an explosive. The explosive by "profession" is sensitive and he voyage from cholera. The next lay's Star printed details of the quar-intining of the Atlanta, on which there were eleven cases of cholera, several plosive by "profession" is sensitive and unstable.

We think we know all the weaknesses of the explosive. A dynamite cartridge to which a match is applied explodes instead of burning. Why? Theoretically picric acid is insensible to heat. It does not cause it to explode. And yet it has exploded in certain fires. Again, smokeless powder is presented as insensible to mechanical actions, and yet the contrary has been seen. Is there chance or caprice in their actions? The truth is there is neither. There is no such thing as chance in explosives. "Chance" or "caprice" means simply conditions, which the passengers having died and been burled at sea. A memorial was sent to President Johnson, signed by the New York health commission, ask-ing that Sandy Hook be transferred by ing that Sandy Hook be transferred by the government to the commission for the purpose of erecting hospitals for the treatment of the disease. The next day, November 4, 1865, The Star print-ed a dispatch from New York stating that fifteen deaths had occurred on the Atlanta out of forty or fifty patients.

Although the trial of Henry Wirz for atrocities committed at Andersonville prison during the war Wirz Ignorant was concluded on Ocof Verdict. tober 21, 1865, no announcement of the result was made for some time. In The Star of November 4 is the following:

the findings in his case and is very impatient to hear the result. Yesterday he wrote to his counsel, Mr. Schade he wrote to his counsel, Mr. Schade, begging him to come to see him and relieve him of the suspense he was under, asserting that his anxiety will kill him if he is not informed soon. He says that he expects to be hanged, but that he wants to know it and prepare for it. Rev. Father F. X. Boyle of St. Peter's Church, Capitol Hill, calls frequently to see him and converses with him upon his spiritual interests. Wirz talks rather cheerfully and seems Wirz talks rather cheerfully and scems pleased when any of the officers listen to him. He continues to spend much of his time in reading German works, with which he is supplied by his coun-

Now women by the thousand, Here, there and everywhere, Most winsome and bewitching, Most feminine and fair, Are begging me by letter, By poster and by press, If I won't make them happy By simply saying "Yes."

But by what right or reason,
I'd like to know, do they
Plead with me in this manner
That I will come their way?
Because I've long been begging
In bachelor distress,
An answer like they ask for,
And never one says "Yes."

-W. J. Lampton, in New York Sun

ON EXPLOSIONS AND EXPLOSIVES

great precautions, varying

ed in the fact of slow and rapid ex

suit the cartridge for the rifle and can

on. Shattering powders for bombs

and cartridges are destined to destroy

ing the time the projectile passes from

ing powder may burst the cannon or

are reserved for cases where a destruc-

to flare up in place of exploding.

the same body burns or bursts, decom-

ly. Still again, the cartridge dynamite

burns inoffensively when we put fire to

it; it explodes when it is fired by the

cury. In one case one has put fire to it

-it burns; in the other one has created

an explosive wave, and it explodes That explosive wave, and it explodes. That explosive wave is propagated besides to the surroundings. The mechanical shock engendered is sufficient to precipitate an explosion "by influence."

price" means simply conditions, which one may think are known, but which were unknown.

Besides, explosives are subjects of al-

terations which are said to be "sponta-

Spontaneous causes which have not

Explosions. explosive becomes a

ew personage. Dynamite, when it has

classic cannon powder brought by

neous"; that is, due to

been perceived. The

tive effect is sought.

bridges, rails, etc. The progressive

ing the gun.
Since the revolution attempts have been made to render black powder more progressive by assuring slow combustion. In Germany in 1881 chocolate powder was invented (77 saltpeter, 20 charcoal, 3 sulphur).
Black powder still plays a role in artillery. It is employed in bombs with balls or shrapnel. heap in an uncovered place is consuminclosed space it will explode. Not be ing simple bodies like oxygen, iron

tions or they are associated with various other bodies. Mixtures are very un stable; that is to say, taking fire

readily by ignition, shock, friction shaking; their manipulation requires Is powder an instrument of civilizaion, as asserted? Its advocates claim that it was powder Powder and that held the barbarians in check. It has Civilization. alded civilization certainly in an industrial way, opening wering of temperature, and which ecomposing evolve on the contrary galleries in mines and in perforating ountains.

Another characteristic of explosive bodies is the production of a great quantity of gas. It is the expansion of gas that determines the effects of pres-In 1785 Berthelot, French having discovered chlorate having discovered chlorate of potash, thought he might substitute it for saltpeter in black powder. It was possible and rational, but dangerous. At the powder mills of Essonnes both Berthelot and Lavoisier, who accompanied him, narrowly escaped destruction in the experiments made. In itself chlorate of potash is not dangerous, but associated with sulphur it becomes exient. Some explosives may serve equally for propulsion and for shattering;
others may fill the two functions by
treatment that alters the properties
with a view to obtain the desired effect; to moderate a bursting explosive,
or, on the contrary, accelerate the reaction of an explosive having naturally
slow action. ste of potash is not dangerous, but associated with sulphur it becomes excessively sensitive and redoubtable. Berthelot powder contained 75 of chlorate, 10 sulphur, 15 charcoal. In Augendre powder of 1849, chlorate was mixed with prusslate of potash and sugar; in 1850 Melville powder was made of chlorate with sulphur of arsenic and sulphate of potassium; Davay, in 1852, mixed chlorate, nitrate and prussiate. French, Russians, English and Americans rivaled each other Why is it that dynamite is worthless s an explosive of propulsion, when as lish and Americans rivaled each other a shattering explosive Properties of it is very superior to In 1882 a chlorated powder (in dustrial) made its appearance under the name of asphaline. Then followed, in turn, the prometheus, rack-a-rock, cheddite, permonite, polarite, ajax, Dynamite. smokeless post containsmokeless powder? The

dynobel.

In 1799 Howard, an Englishman, obtained the fulminate of mercury. Very sensitive, it was employed in capsules to explode explosives. Fulminate of mercury is still a mystery when employed alone, but very useful when mixed with moderating substances in order to prevent its explosion. Fulminate of the property is exployed in the minate of mercury is employed in the howitzer shell of the French 75 and in some other arms.

In 1832 a new type of explosive was M. Henry Le Chatelier, the eminent chemist and metallurgist, has recently given interesting indications on the inferent sorts of explosions. The rapidity of explosion is extremely counot by treating Developments of the Thirties. stances with conand other subentrated azotic acid. This was the de-

The rapidity of explosion is extremely variable, according to the explosive and the conditions in which the explosive is placed, the mode of priming. Let us take up the dynamite cartridge and put fire to it. It burns as a torch, slowly. Place it against the rails of the railway and fire it with a suitable percussion cap; the rail will go off also. The rapidity of the explosion varies from one explosive to another and also for the same explosive of one condition to another in almost unmeascotton is a component. In 1838 Pelouze repeated the experiizable product in pyrotechnics. condition to another in almost unmeasured limits. The differences are of the proportion of one to a million. In a proportion of one to a million. In a certain composition the explosion may occur a million times quicker than in another. It is that which constitutes the danger of shattering explosives, ultra-rapid, exploding in free air in the absence of all constraint. Under these conditions black powder flares up without causing an explosion, and causes considerable damage by reason of the suddenness of its transformation. The layers of surrounding air, the ground, objects, act as so many walls of obstacles opposing the expansion of gases suddenly set free; from these identical results to those which occur if the explosive had been inclosed in an envelope.

Black powder cannot do else than fare up; melinite cannot do else than explode with a loud noise. But dynawite on compressed cotton dried and that a little dried cotton causes the explosion of wet cotton. Thus wet

the explosion of wet cotton. Thus we cotton can be stored and is much less sensitive and it is this humid cotton to flare up in place of exploding.

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No one ignores the virtue of an explosive which does not depend only on its personality or on the conditions which have been made. The mode of priming plays a very important role. According to the priming plays a very important role. According to the priming the priming that the dependence of the priming plays a very important role. According to the priming plays a very important role. According to the priming the priming that the priming the priming that the priming that the priming the priming that th utilized in surgery and in photography. Thus was discovered the gelatinization of guncotton and smokeless powder. It is no longer the crushing and dangerous explosive of the commencement, but a progressive and "rationalized" powder, the prototype of such as the English cordite and of nobel or balistite.

Cotton is essential in artillery. Smokeless powder serves in bombs and balls and for mortars. Its instability was suspected, in Cotton Is

Essential. the Schnaeme motality and 1996, "TJena" was blown ip at Toulon; in 1911 "La Liberte" met the same fate, disasters that were at-tributed to "poudre B." These accidents, it may be remarked, occurred on ship poard, where were united the precipitating conditions of heat and Stabilizants were sought and found by Capt. Lepidi du Bouchet in the diphenylamine, which multiplied by five the length of life of smokeless powder.

The detailed story of the discoveries The detailed story of the discoveries that have followed is too long to recite here. An Italian chemist, Sobrero, found nitroglycerin in 1846. The Swede, Nobel, discovered dynamite in 1865. The Englishman, Sprengel, witnessed the explosion of picric acid under shock in 1871. After Turpin had introduced some modification in 1885, it was termed melinite, with many "variants," designated by the British as "T. N. T."

In 1885 Capt, Favier of the Belgian engineers discovered an explosive comengineers discovered an explosive composed of nitrate of ammonium (91.5) and monomtronaphlaline (8.5). Among the variants of this type ("ammonial") one will be astonished to find aluminum, which is explained by the fact that this mild metal is a formidable combustible and plays an important part in incen-

and plays an important particles and plays an important particles. The role of explosives in this war is formidable. If, as Napoleon said a century ago, "God was on the side of the heaviest artillery," it may be said now with truth that the devil is on the side of asphyxiating explosives.

CH. CHAILLE-LONG. reached a year in age, is something suspicious and extra-unreliable. Guncotton was in the same category, and deteriorated before means were found The most ancient explosive is the

SERBIANS' SAD PLIGHT.

rom the Chicago Herald. What Serbia naturally desires is the arrival of a strong force of the allies a reasonable time before the obsequies.

From the Concord Evening Monitor.
The center of sympathy seems to have shifted from Belgium to Serbia. From the Philadelphia Evening Ledger.

The Teutons are dashing into Serbia, and what Serbians are saving serbia,

From the Buffalo Commercial.

The Serbian capital is able to move on a minute's notice.

From the Birmingham Age-Herald.

The Serbs are bound to put up a fight.

They have no ready means of exit. From the New Orleans Times-Picayune.

From the Boston Globe The indications are that the Germans will soon control about as much of Serbia as they do of Belgium.

From the St. Louis Republic.

The Serbian government is getting to be as movable as the several governments in Mexico have been until re
Trom the Ruffale Commercial.

them can be printed only in dashes.

Still, a lady like Mile. Suffrage would hardly like to be introduced to a city that was simultaneously engaged in welcoming Messrs. Penrose, Vare and McNichols.

From the Rochester Herald.

The defeat of the suffrage amendment will give the public a needed rest, for a few weeks at least. The ladles will have to take a spell for getting back their wind. Half a million men voted for woman suffrage in this state. It wasn't un-

successful campaigning among the men that lost the battle. Suffrage falled because of the women—the ones From the Newport News. that didn't care. From the Brooklyn Times. From the Brooklyn Times.

Since more than half a million men voted for suffrage in this state, it would seem that the suffragists' claim that 4 million women wanted the vote was close to correct.

From the Knoxville Sentinel. Defeat for the women in three big states was a bit disconcerting, but their fight was an education—to themselves as well as the electorate. Every movement must have a beginning before victory can come,

for a better and happier day.

From the Charleston News and Courier.

Judging from the results of Tuesday's elections, those foreigners who say Americans are slaves to their women are in error.

From the Baltimore Star. But, shsh! Suppose all the girls should threaten to move to the suffrage states!

Woman Suffrage and a Bachelor.

The suffragists are taking some sat-isfaction in the fact that the proposed isfaction in the fact that the proposed new state constitution in New York received a harder blow than did the Suffrage is defeated, but the spirit of equality and justice still persists for a better and happier day.

d to the fishermen as a product tha

had never before been known occurred in the course of the gulf stream. The fish lived not over shallow "hanks" as most fish caught commercially, but in the narrow zone where the warm waters of the gulf stream come in contact with the steep slopes of the foundation of the North American continuent. The swinging out of the warm ent. The swinging out of the warm tream left the fish to be enveloped by ld water, with the result that up-

placing the theisin on the process that the new fishing industry that is sure to be built un will place hundreds of thousands of additional dollars in the pockets of American fishermen as well as give another economical fisheries product to the American housewife. One of the valuable features in connection with the new industry. Dr. Smith points out, is the fact that the fishing grounds are within 100 miles of New York and almost as close to Boston. Dr. Smith points to the fact that the gulf stream has never been known to shift from its course but once, and feels that the probability is strong that the tilefish grounds will be permanent.

at top speed seeking to clear obstructing slides out of the Pana-Canal Zone ma canal, practically all other government em Railroad. ployes in the Canal Zone re also working under special stress; for the tying up of traffic has revolumost of the activities on th isthmus that were beginning to settle into known channels. First and most noticeable of the ef-

fects were the increased demands on the Panama railroad, which, in the days before the opening of the canal, carried the United States government, in mediately put a special rate—pra cally a cost-of-service rate—into eff ganization of specific activities among wherever it has been possible for vessels waiting at the two ends of the farmers and in canal to effect exchange agreements

Reclamation.

Reclamation.

of rural community life in general has been recognized by the Department of Agriculture, are also being forstered by the reclamation served.

The road is now carrying between 4,000 and 5,000 tons of transisthmian freight a day.

In the matter of demand for supplies, the closing of the canal made another being forstered by the reclamation served.

cles in every city and town and many said:

to lend a hand in the transaction of their business.

Originally the postal system was merely the carrier of written communi-cations. Now it carries as well articles of all sorts, and transports money, banks the people's savings, helps them invest in government bonds and issues

lication of a general directory of project women's clubs and will act also as a clearing house for the exchange of experiences and helpful hints among the clubs and club federations on the various reclaimed areas.

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Through his scientific agencies Uncle Sam is not content merely to issue direction as to how Popularizing things should be done. He is not afraid to roll up his sleeves, so to speak, and to lead the way, whether it be into a new industry or a new phase of an old one. He has just demonstrated this through the work undertaken by the bureau of fisheries to popularize the tilefish, a deep-sea product that so far as markets, consumers and even fisher-

THE DEFEAT OF SUFFRAGE.

suffrage amendment. From the Harrisburg Patriot.

in every case numbers of the maps have been sold. Arrangements have been made with the Post Office Department, so that the postmasters are permitted to receive a commission on sales.

"Wirz has not yet been informed of

cently.

to stabilize and preserve it.

From the Cincinnati Times-Star.

This invasion of Serbia again evokes our admiration for the powers of pronunciation of the denizens of far-off

In those portions of Serbia which have not been occupied by the Austrians, Germans and Bulgarians, the principal occupation of the natives at present consists in their efforts to prevent the occupation first mentioned.